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9

10 **IN THE UNITED STATES DISTRICT COURT**  
11 **FOR THE DISTRICT OF ALASKA AT ANCHORAGE**

12 ENOCH ADAMS, JR., LEROY ADAMS,  
13 ANDREW KOENIG, JERRY NORTON  
DAVID SWAN and JOSEPH SWAN,

14 Plaintiffs,

15 v.

16 TECK COMINCO ALASKA INCORPORATED

17 Defendant.

18  
19 NANA REGIONAL CORPORATION and  
20 NORTHWEST ARCTIC BOROUGH,

21 Intervenor-Defendants.  
22  
23  
24  
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26  
27  
28

Case No. A04-49 (JWS)

[PROPOSED]  
SUPPLEMENTAL  
REVISED COMPLAINT FOR  
INJUNCTIVE AND  
DECLARATORY RELIEF  
AND CIVIL PENALTIES

Federal Water Pollution Control  
Act, 33 U.S.C. §§ 1251 to 1287

1 **I. JURISDICTION AND VENUE**

2 1. Subject matter jurisdiction is conferred upon this Court by Section 505(a)(1) of the  
3 Federal Water Pollution Control Act, also known as the Clean Water Act (the "Act"), 33 U.S.C.  
4 § 1365(a)(1).

5 2. Pursuant to Section 505(c)(1) of the Act, 33 U.S.C. § 1365(c)(1), venue lies in the  
6 District of Alaska because Teck Cominco's Red Dog Mine and the port site are located within  
7 the District of Alaska.

8 **II. INTRODUCTION**

9 3. Through this action, plaintiffs Enoch Adams, Jr., Leroy Adams, Andrew Koenig, Jerry  
10 Norton, David Swan and Joseph Swan seek an injunction, declaratory relief, and civil penalties in  
11 response to repeated and continuing violations of the Clean Water Act, 33 U.S.C. §§ 1251 *et seq.*  
12 by Teck Cominco Alaska Incorporated ("Teck Cominco"). Teck Cominco has violated the Clean  
13 Water Act by grossly exceeding the discharge limits set by its National Pollution Discharge  
14 Elimination System ("NPDES") permits for the Red Dog mine site and port site in northwest  
15 Alaska.

16 4. This case is about citizens seeking to enforce environmental laws when state and  
17 federal agencies are unable or unwilling to do so. The linchpin of the national effort to clean and  
18 preserve our waters is the Clean Water Act. Under 33 U.S.C § 1342, all discharges of pollutants  
19 to the waters of the United States must be authorized by a NPDES permit.

20 5. Teck Cominco defeats the purpose of the Clean Water Act and NPDES permits  
21 through its continuing disregard of the specified limits in the mine site and port site permits.  
22 Under the self-monitoring provisions of its permits, Teck Cominco documents and reports its  
23 compliance, or lack thereof, each month to the U.S. Environmental Protection Agency ("EPA")  
24 in its Discharge Monitoring Reports. These reports demonstrate that Teck Cominco knowingly  
25 violates at least some of its permit limits every month that it operates.

26 6. The six individual plaintiffs bring this action because Teck Cominco's repeated  
27 violations have reduced the quality of their lives and changed the way they perform basic  
28 activities such as subsistence hunting and fishing. The plaintiffs are all residents of the Native

1 Village of Kivalina, an Inupiat village on the Chukchi Sea. They are also all appointed members  
2 of the Kivalina Relocation Planning Committee, and are referred to collectively as “plaintiffs” in  
3 this Complaint. Their homes are at the mouth of the Wulik River, downstream of the mine’s  
4 Outfall 001 on Middle Fork Red Dog Creek. The community obtains drinking water from the  
5 Wulik River, and hunts and fishes in the marine and terrestrial environment adjacent to the port  
6 and mine sites. As a result of Teck Cominco’s illegal discharges, plaintiffs believe that their  
7 drinking water quality has decreased. The location and quantity of terrestrial mammals, marine  
8 mammals and fish that constitute their basic source of food has changed. Teck Cominco’s  
9 violations of the Clean Water Act deprive plaintiffs of the opportunity to exercise their traditional  
10 lifestyle without fear of illness or exposure to dangerous contaminants.

11 7. Neither the EPA nor the Alaska Department of Environmental Protection have  
12 undertaken any enforcement action or imposed administrative penalties in response to the  
13 repeated violations of the NPDES permits. EPA’s response to the repeated violations has been to  
14 issue Compliance Orders by Consent that give Teck Cominco additional time to comply with its  
15 permit limits and specify new, less stringent interim limits. Teck Cominco violates these  
16 Compliance Orders as well.

### 17 **III. NATURE OF THE CASE**

18 8. This is a citizens’ suit for relief brought by the plaintiffs under Section 505 of the  
19 Clean Water Act, 33 U.S.C. § 1365. This provision allows citizens to bring an action against any  
20 person in violation of any effluent standard or limitation. The district court has jurisdiction to  
21 enforce any effluent standard or limitation, and to apply civil penalties as authorized by the Act.

22 9. Teck Cominco is routinely discharging a variety of pollutants in violation of the limits  
23 established in its mine site NPDES permit (permit no. AK-003865-2, hereafter “mine site  
24 permit”) and port site permit (permit no. AK-004064-9, hereafter “port site permit”). Teck  
25 Cominco’s permits, and the conditions of the permits, are “effluent standards or limitations”  
26 under 33 U.S.C. § 1365(f). Plaintiffs bring this action to enforce the Clean Water Act. Plaintiffs  
27 seek a declaratory judgment, injunctive relief to prohibit future discharges in violation of the  
28

1 established permit limits, the imposition of civil penalties, and other relief for Teck Cominco's  
2 violations of the terms of its permits.

#### 3 IV. PARTIES

4 10. The plaintiffs – Enoch Adams, Jr., Leroy Adams, Andrew Koenig, Jerry Norton,  
5 David Swan and Joseph Swan – all serve on the KRPC. Each is a long-time resident of Kivalina.  
6 The plaintiffs will be collectively referred to as “plaintiffs” in this Complaint. The plaintiffs  
7 have obtained and reviewed copies of Teck Cominco's Discharge Monitoring Reports for the  
8 time period covered by this lawsuit.

9 11. The plaintiffs, and other residents of Kivalina, reside at the mouth of the Wulik  
10 River. The Wulik River is the primary source of drinking water for the village of Kivalina.  
11 Plaintiffs also obtain a number of species of fish from the Wulik River and its tributaries.  
12 Plaintiffs hunt for marine mammals and fish in the waters offshore from the port site's discharge  
13 point on the Chukchi Sea. Plaintiffs and other residents of Kivalina depend on the food obtained  
14 from subsistence hunting activities in these locations for a substantial portion of their dietary  
15 needs. Teck Cominco's permit violations affect the individual plaintiffs. Plaintiffs rely on the  
16 waters of the Wulik River, which is downstream of Red Dog Mine Outfall 001 in the Middle  
17 Fork Red Dog Creek, for their drinking water and as a source of fish for its basic subsistence.  
18 Likewise, plaintiffs fish and hunt in the waters of the Chukchi Sea into which Teck Cominco's  
19 port facility regularly discharges hazardous substances such as zinc, cadmium, and fecal  
20 coliform. Plaintiffs observe that the quality of their drinking water has declined since the mine  
21 began operating, noting strange tastes and colors that make the water offensive to consume.  
22 Plaintiffs have also seen changes in the location and quantity of terrestrial mammals, marine  
23 mammals and fish that constitute their basic source of food. These changes have affected the  
24 way that plaintiffs conduct their basic life activities, and hampered their ability to ensure an  
25 adequate supply of food for themselves and their families. Plaintiffs and other Kivalina residents  
26 hunt in the vicinity of the mine, and are afraid that the subsistence resources they are hunting may  
27 be contaminated from drinking in the streams to which Teck Cominco is illegally discharging.  
28



1 Swan gave notice of the violations alleged in the Complaint sixty days prior to the filing of this  
2 Complaint to: A) the general manager and senior environmental advisor of Teck Cominco Alaska  
3 Incorporated, as well as its agent for service of process; B) the Administrator of the U.S. EPA; C)  
4 the Regional Administrator of the U.S. EPA for Region X; D) the U.S. Attorney General; E) the  
5 Commissioner of the Alaska Department of Environmental Conservation; F) the Commissioner  
6 of the Alaska Department of Fish and Game; and G) the Attorney General of Alaska. A true and  
7 correct copy of this Notice Letter is attached to this Complaint as Exhibit A. Pursuant to Section  
8 505(b)(A) of the Act, 33 U.S.C. § 1365(b)(1)(A), on August 8, 2007, Enoch Adams, Jr., Leroy  
9 Adams, Andrew Koenig, Jerry Norton and Joseph Swan gave supplemental notice of further  
10 violations sixty days prior to the filing of this Supplemental Complaint to the same nine persons.  
11 A true and correct copy of this Supplemental Notice Letter is attached to this Complaint as  
12 Exhibit B.

13 15. Neither EPA nor the State of Alaska has commenced or is diligently prosecuting a  
14 civil or criminal action in a court of the United States to require Teck Cominco's compliance  
15 with the standards, limitations, and orders at issue in this case, the mine site permit and the port  
16 site permit.

17 16. This action is not barred by any prior administrative penalty under § 309(g) of the  
18 Act, 33 U.S.C. § 1319(g).

## 19 VI. GENERAL ALLEGATIONS

### 20 A. Background on the Red Dog Mine

21 17. The Red Dog mine is the world's largest zinc mine, and its zinc deposit is the largest  
22 known zinc resource in the world. The mine is located about 55 miles east of the Chukchi Sea in  
23 the western end of the Brooks Mountain Range in the Northwest Arctic Borough of Alaska. The  
24 mine has the capacity to produce 1.1 million tons per year of high quality zinc concentrates,  
25 constituting seven percent of the world's mined zinc production. The mine has an expected life  
26 of forty years. Concentrate production and hauling began in 1989.

27 18. The Red Dog mine is an open-pit ore mine. After the ore is removed from the pit, it  
28

1 is processed to extract the zinc and lead that are the mine's primary products. First the ore is  
2 crushed and ground to a fine powder. The powder is placed in tanks where the zinc and lead are  
3 separated from the rest of the ore in a milling process that utilizes a variety of chemicals,  
4 including 60 to 70 grams of cyanide per ton of ore. Waste ore and water from processing are  
5 placed in the tailings impoundment, an unlined storage area designed to keep the tailings and  
6 water in one place. This water is treated and discharged into Middle Fork Red Dog Creek  
7 through Outfall 001. Discharge from the mine site is seasonal, happening only in the warmer  
8 months, usually beginning in May and continuing until early October. Mining at the site takes  
9 place year-round.

10 19. Concentrates are transported year-round to the port on the 52-mile DeLong Mountain  
11 transportation system road, which runs from the mine site to a port site. A portion of the road  
12 passes through the Cape Krusenstern National Monument.

13 20. At the port site, the concentrates are stored in two large concentrate storage buildings  
14 approximately one mile from the sea. Each building is approximately one quarter mile long. The  
15 port site began operations in 1989 with one concentrate storage building. A second building was  
16 added later.

17 21. Zinc concentrates produced at the mine are sent to smelters around the world by ship  
18 from the port site, which is on the Chukchi Sea, located southeast of Kivalina at 67° 34' N, 164°  
19 03' west. Construction of the port began in 1986, and the first barge was loaded in 1990.  
20 Shipping from the port site only occurs in warmer months when the Chukchi Sea is ice-free;  
21 most discharge from the port only occurs seasonally as well.

22 22. Teck Cominco mined 5,220,000 tons of ore in 1999, 6,591,000 tons of ore in 2000,  
23 7,294,000 tons of ore in 2001, and 7,257 tons of ore at the Red Dog mine in 2002. Red Dog  
24 produced 1,148,000,000 pounds of zinc in 1999, 1,171,000,000 pounds of zinc in 2000,  
25 1,141,000,000 pounds of zinc in 2001, and 1,156,800,000 pounds of zinc in 2002.

26 23. Teck Cominco's pro forma operating profit at the Red Dog mine was \$117,000,000  
27 in 1999, \$121,000,000 in 2000, and \$4,000,000 in 2001.



1           24. The mine and port are located on lands owned by Northwest Alaska Native  
2 Association (NANA) Regional Corporation. Teck Cominco financed the construction of the  
3 mine and operates it under an agreement with NANA.

4                           **B. Statutory and Regulatory Background**

5           25. Section 301 (a) of the Act, 33 U.S.C. § 1311(a), prohibits the discharge of pollutants  
6 from a "point source" into the navigable waters of the United States, unless the discharge is in  
7 compliance with the applicable effluent limitation set by EPA, as required by a NPDES permit  
8 issued pursuant to Section 402 of the Act, 33 U.S.C. § 1342.

9           26. The Red Dog Mine and its port site both include point sources under Section 502(14)  
10 of the Act, 33 U.S.C § 1362(14).

11           27. Middle Fork Red Dog Creek and the Chukchi Sea are navigable waters under Section  
12 502(7) of the Act, 33 U.S.C. § 1362(7).

13           28. The U.S. EPA administers the NPDES permit program in the State of Alaska.

14                           **C. Permit History, Requirements, Consent Orders and Other Violations**

15                                   **1. The Mine Site**

16           29. The first NPDES permit for the mine site (permit no. AK-003865-2) was issued on  
17 July 10, 1985, and was reissued by EPA on August 28, 1998. The current mine site permit  
18 expired on August 28, 2003, but was administratively extended by EPA and is still in force.

19           30. The mine site permit authorizes Teck Cominco to discharge 2.418 billion gallons of  
20 effluent each year from its tailings pond through its treatment plant's "Outfall 001" to Middle  
21 Fork Red Dog Creek (Permit Condition I(A)(2)).

22           31. The permit establishes discharge limits for 11 parameters. The permit contains two  
23 types of limitations: a daily maximum discharge limit and a monthly average discharge limit.

24           32. The permit limits for total dissolved solids are a daily maximum concentration of 196  
25 milligrams per liter (mg/L) and a monthly average concentration of 170 mg/L (Permit Condition  
26 I(A)(1)). EPA issued a permit modification on July 17, 2003 which became effective on August  
27 22, 2003, allowing a higher level of TDS in the mine's discharge, but this permit modification  
28



1 has currently been stayed pending appeal and the old permit limitation is still in effect. As the  
2 EPA informed Teck Cominco on October 2, 2003, "Until the appeal is resolved, all conditions of  
3 the unmodified 1998 NPDES permit referenced above remain in effect, including the TDS limits  
4 and monitoring requirements for Outfall 001 contained in Part I.A[.]" As of June 15, 2004, the  
5 daily TDS permit limit is 3900 mg/L, except during Arctic Grayling spawning season when both  
6 the daily and monthly TDS limits from the 1998 permit are in force.

7 33. The permit limits for cyanide are a daily maximum concentration of 9.0 parts per  
8 billion (ppb) and a monthly average concentration of 4.0 ppb (Permit Condition I(A)(1)).

9 34. The permit limits for whole effluent toxicity are a daily maximum concentration of  
10 12.2 chronic toxicity units (TUc) and a monthly average concentration of 9.7 TUc (Permit  
11 Condition I(A)(1) and I(H)(5)).

12 35. The permit limits for cadmium are a daily maximum concentration of 3.4 ppb and a  
13 monthly average concentration of 2.0 ppb (Permit Condition I(A)(1)).

14 36. The mine site permit describes the monitoring and reporting requirements Teck  
15 Cominco must follow, including frequency of sampling, analytical protocols, and ambient  
16 monitoring requirements.

17 37. The mine site permit also details a number of management measures that Teck  
18 Cominco must follow. The permit specifies that precipitation falling on the shale pile be directed  
19 into the tailings impoundment; that water that seeps from the tailings impoundment dam be  
20 returned to the tailings impoundment, treated, or recycled in the milling process; and the water in  
21 the tailings impoundment not leak into Red Dog Creek.

22 38. Teck Cominco has consistently failed to comply with many of the limits specified in  
23 its mine site permit.

## 24 **2. The Port Site**

25 39. The current port site NPDES permit (permit no. AK-004064-9) became effective on  
26 January 29, 1999.

27 40. The port site permit authorizes Teck Cominco to discharge treated wastewater from  
28

1 the sewage treatment plant via Outfall 001 to the Chukchi Sea; and to discharge drainage water  
2 from the concentrate storage buildings via Outfall 005 to the Chukchi Sea or to the tundra.

3 41. The port site permit specifies discharge limits for three parameters for Outfall 001,  
4 and for six parameters for Outfall 005. The discharge limits for discharges from Outfall 005 are  
5 significantly higher for discharges to the Chukchi Sea, as compared to limits for discharges to the  
6 tundra.

7 42. The port site permit establishes monitoring and reporting requirements for certain  
8 parameters in the discharge from the port.

9 43. The permit specifies that it does not authorize the discharge of any waste streams,  
10 including spills and other unintentional or non-routine discharges of pollutants that are not part of  
11 normal operations as disclosed in the permit application.

12 44. The permit does not authorize the discharge of chlorine from Outfall 001.

13 45. Teck Cominco has consistently failed to comply with some of the limits specified in  
14 its port site permit.

### 15 **3. Compliance Orders**

16 46. EPA has not initiated any enforcement action against Teck Cominco for its violations  
17 of its permit limits. Instead, EPA has issued Compliance Orders by Consent ("Compliance  
18 Orders") to Teck Cominco, extending deadlines by which Teck Cominco must comply with its  
19 permits and establishing relaxed limitations for certain parameters. The Compliance Orders  
20 represent a negotiated agreement between Teck Cominco and EPA.

21 47. EPA issued a Compliance Order relating to discharges at the mine site (Docket No.  
22 CWA-10-99-0167) on July 1, 1999. This Compliance Order required Teck Cominco to come  
23 into compliance with the terms of its permit by the start of the 2001 discharge season.

24 48. EPA subsequently issued a Modified Compliance Order for the mine on May 30,  
25 2000. The Modified Compliance Order required Teck Cominco to come into compliance with  
26 the TDS limitations of its permit by the start of the 2002 discharge season.

27 49. EPA subsequently issued a second Modified Compliance Order for the mine on May  
28

1 17, 2002, just before the 2002 discharge season. The Modified Compliance Order requires Teck  
2 Cominco to come into compliance with the TDS limitations of its permit by August 28, 2003, the  
3 date the permit expired.

4 50. None of the three mine site Compliance Orders modify the terms of the underlying  
5 NPDES permit. Teck Cominco's current Modified Compliance Order for the mine site states at  
6 paragraph 24: "Nothing in this Order shall be construed to relieve [Teck] Cominco of the  
7 requirements of its NPDES permit[.]"

8 51. The substantive requirements of the three mine site Compliance Orders are nearly  
9 identical.

10 52. The mine site Compliance Orders permit Teck Cominco to measure concentrations of  
11 total dissolved solids (TDS) downstream from the discharge point, and set a significantly higher  
12 concentration for TDS.

13 53. The most recent mine site Compliance Order required TDS measurements at Station  
14 10, a water quality monitoring station on Main Stem Red Dog Creek; and Station 7, a water  
15 quality monitoring station on Ikalukrok Creek several miles below the confluence with Main  
16 Stem Red Dog Creek.

17 54. The first two mine site Compliance Orders limited TDS to 1500 mg/L at Station 10  
18 and to 500 mg/L at Station 160 from July 25 through the end of the discharge season. Teck  
19 Cominco's third mine site Compliance Order limits TDS to 1500 mg/L at Station 10 and to 500  
20 mg/L at Station 150 through the end of the discharge season.

21 55. Temporary exceedences of up to 1600 mg/L were permitted at Station 10 if such  
22 exceedences did not continue for more than 48 hours in any ten day period.

23 56. EPA issued Compliance Orders relating to discharges at the port site (Docket No.  
24 CWA-10-99-0200) on August 24, 1999 and January 12, 2000. A Modified Compliance Order  
25 was issued on January 10, 2002. The Modified Compliance Order for the port site states that "As  
26 a result of Cominco's unpermitted discharges of chlorine, Cominco is in violation of Section  
27 301(a) of the Act, 33 U.S.C. § 131(a)." It allowed Teck Cominco to discharge chlorine in  
28

1 concentrations of less than 0.1 mg/L until January 28, 2004.

2 57. None of the three port site Compliance Orders modify the terms of the underlying  
3 port site NPDES permit. Teck Cominco's most recent Modified Compliance Order for the port  
4 site states at paragraph 16: "Nothing in this Order shall be construed to relieve [Teck] Cominco  
5 of the requirements of its NPDES permit[.]"

6 **4. Summary of Teck Cominco's Violations**

7 58. Teck Cominco's permits require it to file a Discharge Monitoring Report (DMR) for  
8 the mine site and a DMR for the port site each month. In these DMRs, Teck Cominco reports to  
9 U.S. EPA its discharges. The DMRs are certified as accurate by Teck Cominco representatives  
10 under penalty of law.

11 59. By simply comparing the discharges reported by Teck Cominco in the mine site  
12 DMRs to the discharge limits found in Teck Cominco's mine permit, plaintiffs documented  
13 2,322 violations of the mine site permit from August 28, 1998 until May 31, 2003. Plaintiffs  
14 specified each of the 2,322 violations of the mine site permit in the 60-day Notice Letter  
15 Plaintiffs served on Teck Cominco on July 3, 2003. This suit seeks relief from a subset of the  
16 mine site violations noticed by plaintiffs, the 2,203 violations plaintiffs have determined to be  
17 ongoing or capable of repetition. In addition, by comparing discharges reported by Teck  
18 Cominco in the mine site DMRs to the mine permit, plaintiffs documented an additional 772  
19 violations of the mine site permit from June 1, 2003 until June 30, 2007. Plaintiffs specified  
20 each of the 772 violations of the mine site permit in a supplemental 60-day Notice Letter  
21 plaintiffs served on Teck Cominco on August 8, 2007. This suit also seeks relief from 574 of the  
22 supplemental notice violations, which plaintiffs have determined to be ongoing or capable of  
23 repetition and not alleged in the original Complaint.

24 60. By comparing the discharges reported by Teck Cominco in the port site DMRs to the  
25 discharge limits found in Teck Cominco's port site permit, plaintiffs documented 1,654 violations  
26 of the port site permit from May 13, 1999 until May 31, 2003. Plaintiffs specified each of the  
27 1,654 total violations in the Updated 60-day Notice Letter plaintiffs served on Teck Cominco on  
28

1 July 3, 2003. This suit seeks relief from a subset of the mine site violations noticed by plaintiffs,  
2 the 42 violations plaintiffs have determined to be ongoing or capable of repetition.

3 61. By comparing the discharges reported by Teck Cominco in the mine site DMRs to  
4 the discharge limits found in Teck Cominco's mine site Consent Orders, plaintiffs documented at  
5 least 64 violations of the mine site Consent Orders. Plaintiffs specified each of the 64 violations  
6 of the mine site's Consent Orders in the 60-day Notice Letter plaintiffs served on Teck Cominco  
7 on July 3, 2003. This suit seeks relief from the mine site Consent Order violations noticed by the  
8 plaintiffs, the 64 violations plaintiffs have determined to be ongoing or capable of repetition.

9 62. By comparing the discharges reported by Teck Cominco in the port site DMRs to the  
10 discharge limits found in Teck Cominco's port site Consent Order, plaintiffs documented 53  
11 violations of the port site Consent Order.

12 63. The total violations of the permits and Consent Orders alleged in this suit are 2,883.

13 64. The regulations implementing the Clean Water Act, 40 C.F.R. §19.4, authorize a  
14 penalty of up to \$27,500 for each violation of the permits and Consent Orders that occurred  
15 before March 14, 2004, and \$32,500 for violations after March 14, 2004, or up to \$82,107,500  
16 for the violations alleged herein.

#### 17 **5. Other Violations by Teck Cominco at Red Dog**

18 65. Although neither the U.S. EPA nor the State of Alaska has taken action to enforce the  
19 provisions of the Clean Water Act permits at issue in this case, EPA entered into a \$4,800,000  
20 settlement with Cominco Alaska in July 1997 for more than 1,000 Clean Water Act violations at  
21 the Red Dog mine and port sites, lodged with this Court in *United States v. Cominco Alaska,*  
22 *Inc.*, No.A97-267CIV (JKS). In addition, Alaska has taken action against Teck Cominco for  
23 violations of other permits and environmental laws at the Red Dog mine site. Most recently, on  
24 December 18, 2001, Teck Cominco, the Alaska Department of Environmental Conservation and  
25 the Alaska Department of Law signed a settlement agreement in which Teck Cominco agreed to  
26 a civil penalty of \$827,000 for 18 alleged violations of its air permit, including knowingly  
27 operating and failing to properly report equipment that exceeded emission limits and failure to  
28

1 conduct air monitoring.

#### 2 **D. The Village of Kivalina**

3 66. Kivalina, population 383, is located 80 miles northwest of Kotzebue on the tip of a  
4 barrier beach between the Chukchi Sea and the Kivalina Lagoon. Historically, the area was a  
5 stopping place for seasonal coastal travelers and a spring shore hunting base for inland Inupiat.  
6 Kivalina was settled in the early 1900s. The local economy is based on subsistence hunting and  
7 fishing.

#### 8 **FIRST CLAIM**

##### 9 **Mine Site: Violations of Total Dissolved Solids Permit Limits**

##### 10 **(33 U.S.C. § 1311(a))**

11 67. Paragraphs 1-66 are incorporated by reference.

12 68. Mine site permit I(A)(1) for TDS specifies a daily maximum discharge of 196 mg/l.

13 69. Teck Cominco's operations at the Red Dog Mine cause Teck Cominco to discharge  
14 TDS through Outfall 001 in quantities approximately 1500 percent higher than its maximum  
15 daily limits on every day in which the mine discharges.

16 70. As specified in plaintiffs' Notice Letter, Teck Cominco violated mine site permit  
17 condition I(A)(1) for daily maximum TDS on the following days:

18 **1999:** June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23,  
19 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,  
20 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,  
21 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; September 1, 2, 3, 4, 5, 6,  
22 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30;  
23 October 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12.

24 **2000:** May 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,  
25 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7,  
26 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31;  
27 August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27,  
28



1 28, 29, 30, and 31; September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,  
 2 22, 23, 24, 25, 26, 27, 28, 29, and 30; October 1, 2, 3, 4, 5, 6, and 7.

3 **2001:** May 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,  
 4 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,  
 5 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,  
 6 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; September 1, 13,  
 7 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; October 1, 2, 3, 4, 5, 6, 7, 8,  
 8 9, and 10.

9 **2002:** May 26, 27, 28, 29, 30, 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,  
 10 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,  
 11 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; August 1, 2, 3, 4, 5,  
 12 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31;  
 13 September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,  
 14 27, 28, 29, and 30; October 1, 2, 3, 4, 5 and 6.

15 **2003:** May 9, 10, 11, 12, 13, 14, 15, 25, 26, 29 and 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,  
 16 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5,  
 17 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31;  
 18 August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14.

19 **2004:** May 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 and  
 20 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,  
 21 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 and 31; September 1, 2, 3, 4,  
 22 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 and 26.

23 **2005:** May 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30  
 24 and 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25,  
 25 26, 27, 28, 29, 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,  
 26 23, 24, 25, 26, 27, 28, 29, 30 and 31; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,  
 27 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 and 31; September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,  
 28

1 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 and 30; October 1, 2, 3, 4, 5  
2 and 6.

3 **2006:** May 9, 10, 11, 12, 13, 14, 15 and 16; September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,  
4 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30; October 1, 2.

5 **2007:** June 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29,  
6 and 30.

7 71. Plaintiffs are informed and believe that the violations of mine site permit Condition  
8 I(A)(1) for daily maximum TDS are ongoing to this day or are capable of repetition.

9 72. Mine site permit Condition I(A)(1) for TDS specifies a monthly average discharge  
10 limit of 170 mg/l per day.

11 73. Teck Cominco has violated permit condition I(A)(1)'s limits for monthly average for  
12 TDS in every month in which Teck Cominco discharges from Outfall 001. Teck Cominco  
13 violated its permit limits in May 1999, June 1999, August 1999, September 1999, October 1999,  
14 May 2000, June 2000, July 2000, August 2000, September 2000, October 2000, May 2001, June  
15 2001, July 2001, August 2001, September 2001, October 2001, May 2002, June 2002, July 2002,  
16 August 2002, September 2002, October 2002, May 2003, June 2003, July 2003, and August  
17 2003, May 2004, June 2004, May 2005, June 2005, May 2006, June 2006, May 2007 and June  
18 2007.

19 74. Violations of a monthly average limit mean that the permit was violated on each day  
20 the facility discharged in that month. As specified in plaintiffs' Notice Letter, Teck Cominco  
21 violated its permit limits for TDS on the following days:

22 **1999:** June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24,  
23 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,  
24 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,  
25 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; September 1, 2, 3, 4, 5, 6, 7,  
26 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; October  
27 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12.

1           **2000:** May 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,  
 2 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7,  
 3 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31;  
 4 August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27,  
 5 28, 29, 30, and 31; September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,  
 6 22, 23, 24, 25, 26, 27, 28, 29, and 30; October 1, 2, 3, 4, 5, 6, and 7.

7           **2001:** May 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,  
 8 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,  
 9 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,  
 10 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; September 1, 13,  
 11 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; October 1, 2, 3, 4, 5, 6, 7, 8,  
 12 9, and 10.

13           **2002:** May 26, 27, 28, 29, 30, 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,  
 14 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,  
 15 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; August 1, 2, 3, 4, 5,  
 16 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31;  
 17 September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,  
 18 27, 28, 29, and 30; October 1, 2, 3, 4, 5 and 6.

19           **2003:** May 9, 10, 11, 12, 13, 14, 15, 25, 26, 29 and 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,  
 20 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5,  
 21 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31;  
 22 August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14.

23           **2004:** May 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 and  
 24 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14.

25           **2005:** May 24, 25, 26, 27, 28, 29, 30, 31; June 1, 2, 3, 4, 5, 6.

26           **2006:** May 30, 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

27           **2007:** May 26, 27, 28, 29, 30 and 31; June 1, 2.

76. Teck Cominco has discharged TDS in excess of its daily permit limit at least 915 times, and in excess of the monthly average permit limit at least 688 times, for 1303 total TDS violations.

77. Plaintiffs believe and aver that, without the imposition of appropriate civil penalties and the issuance of appropriate equitable relief, Teck Cominco will continue to violate its permit limits with respect to TDS discharges.

## Mine Site: Violations of Cyanide Permit Limits

**(33 U.S.C. § 1311(a))**

78. Paragraphs 1-77 are incorporated by reference.

79. Mine site permit condition I(A)(1) for cyanide specifies a daily maximum discharge of 9 ppb.

80. As specified in plaintiffs' Notice Letter, Teck Cominco exceeded its daily maximum permissible concentration of cyanide and thus violated permit condition I(A)(1) for cyanide on May 22, 1999; May 25 and 29, 2000; June 10, 13, and 24, 2000; June 14 and 18, 2001; July 22 and 30, 2001, August 13, 16, 20, and 27, 2001; June 10, 2002; and September 30, 2002. As specified in plaintiffs' Supplemental Notice Letter, Teck Cominco exceeded its daily maximum permissible concentration of cyanide and thus violated permit condition I(A)(1) for cyanide on May 10 and 13, 2003; June 17 and 24, 2003; July 1, 15, 21 and 29, 2003; August 12, 2003; May 23, 2005; August 9, 2005; September 5, 12, 19, 2005; October 3, 2005; May 11 and 15, 2006; June 5, 2006; October 1, 2006.

81. Plaintiffs are informed and believe that the violations of mine site permit Condition I(A)(1) for daily maximum cyanide discharges are ongoing to this day or are capable of repetition.

82. Mine site permit condition I(A)(1) for cyanide specifies a maximum monthly average

1 discharge of 4 ppb per day.

2 83. Teck Cominco exceeded its permissible monthly average for cyanide in June 1999,  
3 July 1999, August 1999, September 1999, May 2000, June 2000, July 2000, September 2000,  
4 October 2000, June 2001, July 2001, August 2001, September 2001, May 2002, June 2002 and  
5 September 2002, as well as in September 2005, October 2005, May 2006, June 2006, July 2006,  
6 August 2006 and September 2006.

7 84. Violations of a monthly average limit mean that the permit was violated each day the  
8 facility operated in that month. As specified in plaintiffs' Notice Letter, Teck Cominco violated  
9 permit Condition I(A)(1) for monthly average discharge of cyanide on the following days:

10 **1999:** June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24,  
11 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,  
12 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,  
13 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; September 1, 2, 3, 4, 5, 6, 7,  
14 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30.

15 **2000:** May 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,  
16 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7,  
17 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31;  
18 September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,  
19 27, 28, 29, and 30; October 1, 2, 3, 4, 5, 6, and 7.

20 **2001:** June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23,  
21 24, 25, 26, 27, 28, 29, and 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,  
22 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,  
23 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; September 1, 13, 14, 15,  
24 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30.

25 **2002:** May 26, 27, 28, 29, 30, 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,  
26 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,  
27 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30.

**2006:** May 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 and 31; June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30; July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 and 31; August 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 and 31; September 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30.

86. Teck Cominco has discharged cyanide in excess of its daily permit limits at least 35 times, and in excess of the monthly average permit limit at least 588 times, for 623 total cyanide violations.

87. Plaintiffs believe and aver that, without the imposition of appropriate civil penalties and the issuance of appropriate equitable relief, Teck Cominco will continue to violate its permit limits with respect to cyanide discharges.

### Mine Site: Whole Effluent Toxicity (“WET”) Testing Permit Violations

**(33 U.S.C. § 1311(a))**

88. Paragraphs 1-87 are incorporated by reference.

89. Mine site permit condition I(H)(4) requires that the results for the whole effluent toxicity (“WET”) tests of effluent and ambient waters be reported in the Discharge Monitoring Report for the month in which the tests were conducted.

90. As specified in plaintiffs' Notice Letter, Teck Cominco violated permit Condition I(H)(4) by not reporting the results of required WET testing, or by reporting the results of



1 incomplete or inadequate WET testing, in August 1999 (Outfall 001, Station 9, Station 12);  
2 August 2, 3, 4, 2001 (Outfall 001); July 2002 (Station 9); August 2002 (Station 9) and October  
3 2002 (Station 9).

4 91. Plaintiffs are informed and believe that the violations of mine site permit Condition  
5 I(H)(4) for WET test reporting are ongoing to this day or are capable of repetition.

6 92. Mine site permit condition I(H)(5) specifies that WET may not exceed a daily  
7 maximum of 12.2 TUc.

8 93. As specified in plaintiffs' Notice Letter, Teck Cominco exceeded the maximum daily  
9 limit for WET, and thus violated mine site permit condition I(H)(5), in May 1999, June 1999,  
10 July 1999, August 2000; on August 16, 18, 20, 2001; in August 2002; and in September 2002 (2  
11 violations). As specified in plaintiffs' Supplemental Notice Letter, Teck Cominco exceeded the  
12 maximum daily limit for WET, and thus violated mine site permit condition I(H)(5), in August  
13 2004.

14 94. Plaintiffs are informed and believe that the violations of mine site permit Condition  
15 I(H)(5) for daily maximum WET are ongoing to this day or are capable of repetition.

16 95. Mine site permit condition I(H)(5) specifies that WET may not exceed a monthly  
17 average of 9.7 TUc per day.

18 96. As specified in plaintiffs' Notice Letter, Teck Cominco exceeded its monthly average  
19 limit for whole effluent toxicity in May 1999, June 1999, July 1999, August 2000, August 2001,  
20 August 2002 and September 2002.

21 97. Violations of a monthly average limit mean that the permit was violated on each day  
22 the facility operated that month. As specified in plaintiffs' Notice Letter, Teck Cominco violated  
23 permit Condition I(H)(5) for monthly average WET values on the following days:

24 **1999:** May 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31; June 1, 2, 3, 4, 5,  
25 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30; July  
26 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29,  
27 30, and 31.